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Reply to Office Action of September 8, 2004

Atty Dkt No. ATTB 0127 PUS

Amendments to the Abstract:

Please add the Abstract which is attached as a separate sheet hereto.



ABSTRACT OF THE DISCLOSURE

A local network router learns to route IP traffic among customer premises equipment on a local network rather than permitting the IP traffic to be routed through a broadband cable network and selected internet service provider (ISP) to the internet. The local network router dynamically generates a routing table from address resolution protocol (ARP) packets exchanged between the CPE and the external network. For each IP data packet received from a CPE that is destined for another local CPE, the local network router replaces a default gateway with the destination CPE. Accordingly, network resources for routing traffic are significantly reduced.